

Appln No. 10/650,348 Reply to Office Action of March 23, 2006

## **AMENDMENTS TO THE CLAIMS**

1. (previously presented) A method of cutting a strip of elastomeric material into segments of a desired length, the strip having a width W, the strip being formed of a plurality of tire components, at least one of the tire components being a cord reinforced component, the cords being substantially parallel and oriented in the direction of a cutting path formed across the width W of the strip; the method comprising:

moving a cutting device into cutting engagement of the strip while supporting the strip on an anvil;

positioning the cutting edge of the cutting device at a skive angle less than 10 degrees relative to the strip and at a gap distance (d) above the anvil slightly less than or equal to the thickness of the cord reinforced component;

cutting through the entire strip in a single cutting step and forming a segment.

- 2. (previously presented) The method of cutting segments of claim 1 further comprises the step of: orienting said cutting edge at an acute angle  $\beta$  relative to the strip cutting path.
- 3. (original) The method of cutting segments of claim 1 further comprises the steps of movably restraining the strip ahead of the cutting.
- 4. (previously presented) The method of cutting segments of claim 1 wherein the steps of supporting the strip include supporting the strip at an angle  $\theta$ 1, less than the skive angle  $\alpha$  on one side of the cutting path and an angle  $\theta$ 2 greater than the skive angle  $\alpha$  on the opposite side of the cutting path.
- 5. (previously presented) The method of cutting segments of claim 4, wherein the location of the cutting plane occurs approximately at the location wherein the supporting angle changes from  $\theta 1$  to  $\theta 2$ .

Claims 6-19 (canceled)

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- 20. (previously presented) The method of claim 4 wherein there is a discontinuity in the support surface where the support angle changes from  $\theta 1$  to  $\theta 2$ .
  - 21. canceled.
- 22. (previously presented) The method of claim 1 wherein the cutting device is an ultrasonic knife.
- 23. (previously presented) A method of cutting an elastomeric strip into segments of a desired length, the elastomeric strip having a width W, the elastomeric strip being formed of tire components, at least one of the tire components being a cord reinforced component, the cords being substantially parallel and oriented in the direction of a cutting path formed across the width W of the strip; the method comprising the steps of:

supporting the elastomeric strip on an anvil, the anvil having a first support surface oriented at an angle  $\theta$ 1, and a second support surface oriented at an angle  $\theta$ 2 wherein the second support surface is not tangent to the first support surface forming a transition point,

positioning a cutting edge of a cutting device at a gap distance (d) above the anvil at the transition point, the gap distance (d) being slightly less than the thickness of the cord reinforced component; and

cutting the strip at a skive angle  $\alpha$  into a segment.

- 24. canceled
- 25. canceled
- 26. (previously presented) The method of claim 23 wherein said cutting edge is oriented at an acute angle  $\beta$  relative to the strip cutting path.
- 27. (previously presented) The method of claim 23 wherein the cutting device is an ultrasonic knife.

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- 28. canceled
- 29. (currently amended) The method of claim 23 wherein  $\theta 1$  is less than the skive angle  $\alpha$ , and  $\theta 2$  is greater than the skive angle  $\alpha$ , wherein skive angle  $\alpha$  is less than 30 degrees.

Claims 30 -32 (canceled)

- 33. (previously presented) The method of claim 23 wherein the first support surface is not tangent to the second support surface at the intersection thereof.
- 34. (previously presented) The method of claim 23 wherein  $\theta$ 2 is approximately equal to the inclination of the cutting edge of the cutting device.
- 35. (currently amended) The method of claim 23 wherein  $\theta$ 2 is about 2 degrees more than the skive angle  $\alpha$ , wherein skive angle  $\alpha$  is less than 30 degrees.
- 36. (currently amended) The method of claim 23 wherein  $\theta 1$  is about 2 degrees less than the skive angle  $\alpha$ , wherein skive angle  $\alpha$  is less than 30 degrees.

This listing of claims will replace all prior versions and listings of claims in the application.